### PATENT COOPERATION TREATY

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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P5048PC00 International application No. PCT/IS 03/00023				FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)  International filing date (day/month/year)  12.08.2003  Priority date (day/month/year)  12.08.2002				
Applica SVEI		ON,	Birkir		<del></del>			
1.	This Auth	interi ority	national preliminary exan and is transmitted to the	nination report has bee applicant according to	en prepar Article 3	red by this Inte 6.	rnational Preliminary Examining	
2.	. This REPORT consists of a total of 5 sheets, including this cover sheet.							
[	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total of 1 sheets.							
	<b>-</b>							
_			t contains indications rel	ating to the following it	ems:			
•	I ⊠ Basis of the opinion II □ Priority							
-								
		Ø			ovelty, in	oventive step a	and industrial applicability	
•	<ul> <li>IV ☐ Lack of unity of invention</li> <li>V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement</li> </ul>						ventive step or industrial applicability;	
\	<b>/</b> I		Certain documents cite					
- Contain documents cited								
\	VII ☐ Certain defects in the international application VIII ☐ Certain observations on the international application							
Date of submission of the demand					Date of	completion of th	ls report	
11.03.	11.03.2004				09.12.2004			
Name a	Name and mailing address of the International preliminary examining authority:					Authorized Officer		
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465				6 epmu d	Beeck,	, M ne No. +49 89 2	399-8473	

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/IS 03/00023

I.	Bas	is	of	the	re	oq	rt
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages						
	1-20	)		as originally filed				
	Clai	ims, Numbers						
	10-14			as originally filed				
	1-9			received on 22.11.2004 with letter of 22.11.2004				
	Dra	wings, Sheets						
	1/6-	6/6	•	as originally filed				
2. With regard to the <b>language</b> , all the elements marked above were available or furnished to this Authority language in which the international application was filed, unless otherwise indicated under this item.								
	These elements were available or furnished to this Authority in the following language: , which is:							
		the language of a tra	nslatio	n furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publi	ication	of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.3	nslatio 3).	n furnished for the purposes of international preliminary examination (under				
3.	With inte	n regard to any <b>nucle</b> rnational preliminary e	<b>otide</b> a examin	and/or amino acid sequence disclosed in the international application, the ation was carried out on the basis of the sequence listing:				
		contained in the inter	mation	al application in written form.				
		filed together with the	e interr	national application in computer readable form.				
	☐ furnished subsequently to this Authority in written form.							
	☐ furnished subsequently to this Authority in computer readable form.							
	☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		The statement that the listing has been furnitude.	he infoi ished.	rmation recorded in computer readable form is identical to the written sequence				
4.	The	amendments have re	esulted	in the cancellation of:				
		the description,	pages	•				
		the claims,	Nos.:					
		the drawings,	sheets	s:				

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5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).								
		(Any replacement sheet contain report.)	ining s	uch amendm	ents must be referred to under item 1 and annexed to this					
6.	Add	litional observations, if necessa	ry:							
III.	Nor	n-establishment of opinion wi	th reg	ard to novel	ty, inventive step and industrial applicability					
1.	The obv	questions whether the claimed ious), or to be industrially applic	l invent cable h	tion appears ave not beer	to be novel, to involve an inventive step (to be non- n examined in respect of:					
		the entire international applica	tion,							
	×	claims Nos. 1-5								
		because:								
	ns Nos. 1-5 relate to the following subject matter which nination (specify):									
		see separate sheet	•							
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so uncle that no meaningful opinion could be formed (specify):									
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.								
		no international search report	has be	en establish	ed for the said claims Nos.					
2. A meaningful international preliminary examination cannot be carried out due to the failure of the or amino acid sequence listing to comply with the standard provided for in Annex C of the Admin Instructions:										
		the written form has not been furnished or does not comply with the Standard.								
		the computer readable form ha	as not	been furnish	ed or does not comply with the Standard.					
٧.	. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
1.	Sta	Statement								
	Nov	velty (N)	Yes: No:	Claims Claims	1-8,12-14 9-11					
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-8,12-14 9-11					
	Indi	ustrial applicability (IA)	Yes:	Claims	6-14					

2. Citations and explanations

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International application No.

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see separate sheet

- D1: NOVOTNY, FRANTISEK: "Psoriasis Treatment by heparin" ACTA UNIVERSITATIS CAROLINAE MEDICA, vol. 31, no. 3/4, 1985, pages 243-245, XP002274846
- D2: US-B-6 214 8161 (POLIVKA ZDEN EACUTE K ET AL) 10 April 2001 (2001-04-10)

#### **SECTION III:**

Claims 1 to 5 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

#### **SECTION V:**

- Document D2 already describes pharmaceutical compositions comprising a 1) CGRP antagonist (see the abstract, column 1, line 24, and the claims).
  - Therefore the subject-matter of claim 9 to 11 is not novel (Article 33 (2) PCT).
- The use of CGRP antagonists for the treatment of psoriasis is not obvious in view 2) of the documents cited in the Search report.
  - Therefore the subject-matter of claims 1 to 8 and 12 to 14 involves an inventive step.
- 3) For the assessment of the present claims 1 to 5 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

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### **CLAIMS**

- 1. A method of treating, remedying or preventing psoriasis in a subject comprising administering to the subject a therapeutically effective dose of at least one CGRP antagonist compound in a pharmaceutically acceptable formulation.
- 2. The method according to claim 1, wherein the at least one CGRP antagonist compound is selected from the group consisting of 4-sulfinyl benzamide compounds, 3,4-dinitrobenzamide compounds, benzamidazolinyl piperadine compounds, anti-CGRP antibodies, CGRP derivatives including the peptide CGRP 8-37, tryptase active polypeptide, and the compound BIBN4096BS, and compound stabilising tryptase, including hoparin.
- 3. The method according to claim 1, wherein the CGRP antagonist compound is administered locally, such as topically, dermally, intradermally, or subcutaneously, or via dermal or subcutaneous infusion such as through microdialysis administration.
- 4. The method according to claim 1, wherein the CGRP antagonist compound is administered órally, nasally, rectally, pulmonary, buccally or via subcutaneous, intravenous or intramuscular injection.
- 5. The method according to claim 1, wherein the CGRP antagonist compound is administered topically.
- The use of a CGRP antagonist compound for the manufacture of a medicament for treating, preventing or remedying psoriasis in a subject.
- 7. The use according to claim 6, wherein the compound is selected from the group comprising 4-sulfinyl benzamide compounds, 3,4-dinitrobenzamide compounds, benzamidazolinyl piperadine compounds, anti-CGRP antibodies, CGRP derivatives including CGRP 8-37, tryptase, tryptase, tabilizing compounds including heparin, and the compound BIBN4096BS.
- 8. The use according to claim 6, wherein the medicament is administered topically.
- 9. A pharmaceutical composition for treatment of psoriasis comprising at least one active CGRP antagonist substance and at least one pharmaceutically acceptable excipient.

BEEKER TERMERITARINE